

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: hALTOM DENTAL	Building Permit #:	City Drainage #:
DRB#: EPC#:		Work Order#:
Legal Description: LOT 2A LANDS OF BRYANT AND WITAKER		
City Address: 10433 LAGRIMA DEL ORO NE		
Engineering Firm: RIO GRANDE ENGINEERING		Contact: DAVID SOULE
Address: PO BOX 93924, ALBUQUERQUE, NM 87199		
Phone#: 505.321.9099 Fax#: 505.8	72.0999	E-mail: DAVID@RIOGRANDEENGINEERING.COM
Owner: TUCKER HALTOM PROFIT SHARE PLAN		Contact:
Address: 10433 LAGRIMA DEL OROST NE 87111		
Phone#: Fax#:		E-mail:
Architect: JOE SLAGLE	<u></u>	Contact:
Address:		
Phone#: Fax#:		E-mail:
Surveyor: CONSTRUCTION SURVEY INCORPORATED		Contact: JOHN GALLEGOS
Address:		
Phone#: 917.8921 Fax#:		E-mail:
Contractor:		Contact:
Address:		
Phone#: Fax#:		E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROV	AL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARAN	
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPI	ROVAL
× DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D	APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERM	IT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL	L
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPA	ANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPA	
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT AP	PROVAL
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPRO	DVAL
ENGINEER'S CERT (DRB SITE PLAN)	× GRADING PERMIT APPRO	VAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	× PAVING PERMIT APPROV	AL ESC PERMIT APPROVAL
x SO-19	WORK ORDER APPROVAL	
OTHER (SPECIFY)	GRADING CERTIFICATIO	
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes <u>X</u> No Co	opy Provided
DATE SUBMITTED: 7/1/15	By:	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans

2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres

3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more

4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

RIO GRANDE ENGINEERING OF NEW MEXICO, LLC

July 1, 2015

Hydrology Section , Planning Department Development Review City of Albuquerque

RE: Grading and Drainage Plan Haltom Dental

Dear Sir or Madam:

The purpose of this letter is to accompany the initial drainage submittal. The plan has been designed in conformance the adjacent properties drainage plans. The drainage plan allows for free discharge with first flush improvements. The site is divided into 2 basins, the north basin enters a retention pond that retains 423 cubic feet of the 606 cubic feet generated. The pond spills to a bioswale located along the sites western boundary. The southern basin enters this same bioswale via a series of 1' curb cuts. The total site generates .73 cfs which is an increase of .35 cfs from existing. The first flush volume retained is 438 cubic feet which exceed the 137 cubic feet required. Each curb opening has the capacity to convey 1.04 cfs and the swale can convey 1.06 cfs. The onsite improvements have been sized to safely pass the 100-year flow and retain in excess the first flush volume. The parking lot will be used as additional parking for the existing office to the east.

Should you have any questions regarding this submittal, please do not hesitate to call me.

Sincerely,

David Sóule, PE Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

Weighted E Method

LAGRIMA DEL ORO

								100-Year, 6-hr.						
	Basin	Area	Area	Treatment	A	Treatmen	nt B	Treatm	ient C	Treatme	nt D	Weighted E	Volume	Flow
iL		(sf)	(acres)	%	(acres)	<u>%</u>	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
#	UPLAND	0	0.000	60%	0	20.0%	0.000	20.0%	0	0%	0.000	0.000	0.000	0.00
	OVERALL EXISING	6810	0.156	70%	0.10944	30.0%	0.047	0.0%	0	0%	0.000	0.884	0.012	0.38
	BASIN N	3480	0.080	0%	0	20.0%	0.016	20.0%	0.01598	60%	0.048	2.092	0.014	0.36
	BASIN S	3330	0.076	0%	0	8.0%	0.006	12.0%	0.00917	80%	0.061	2.374	0.015	0.37
	PROPOSED	6810	0.156	0%	0	14.1%	0.022	16.1%	0.02515	70%	0.109	2.230	0.029	0.73
	COMPARISION		0.000		-0.109		-0.025		0.025		0.109		0.018	0.35

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm (zon	e 4)	
	Ea= 0.8	Qa= 2.2
	Eb= 1.08	Qb= 2.92
	Ec= 1.46	Qc= 3.73
	Ed= 2.64	Qd= 5.25
Pond volume required		
FIRST FLUSH REQUIRED		134.64 cf
FIRST FLUSH PROVIDED		438.00 cf
EXISTING ONSITE DISCHARGE	0.38 CFS	
PROPOSED ONSITE GENERATED	0.73 CFS	

0.00 CFS

CURB OPENING CAPACITY Q=CLH^1.5=2.95X1X.5^1.5=1.04 CFS

CONTRIBUTING TO POND 0.36 CFS 606.68 CUBIC FEET

NARRATIVE

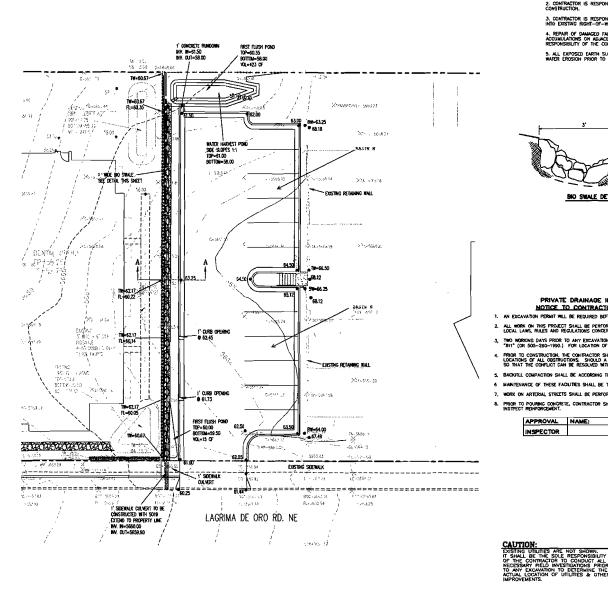
UPLAND

THIS SITE IS AN INFILL DEVELOPMENT NEAR THE BOTTOM OF THE BEAR CANYON WATER SHED. THIS SITE IS ADJACENT TO FREE DISCHARGING PROPERTIES WE ARE PROPOSING TO RETAIN THE NORTHERN BASINS FOR WATER QUALITY AND TO REDUCE FLOW TO LESS THAN HISTORICAL. THE PARKING LOT WILL PASS OVER WATER QUALITY SWALE BEFORE LEAVING SITE. THE PROPOSED INLET WILL BE CONSTRUCTED WITH THE SO19 PERMIT PROCESS

Channel Capacity

	Top Width	Bottom Width	Depth	Area	WP	R	Slope	Q Provided	Q Required	Velocity
	(ft)	(ft)	(ft)	(ft^2)	(ft)		(%)	(cfs)	(cfs)	(ft/s)
Beginning	3	1.5	0.5	1.13	3.30	0.3406226	0.15	1.06	0.74	0.66

 $\frac{Manning's Equation:}{Q = 1.49/n * A * R^{(2/3)} * S^{(1/2)}}$ A = Area R = D/4 S = Slope n = 0.03



EROSION CONTROL NOTES:

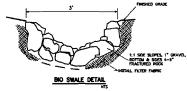
T. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

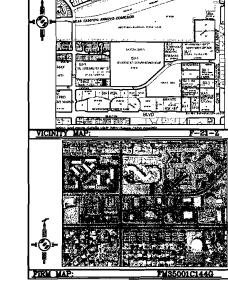
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.





Bally and a work

LEGAL DESCRIPTION:

ATTS

LOT #Z. BLOCK 19. PHIMROSE POINTE UNIT 6 CITY OF ALBUQUERQUE BERMALILLO COUNTY, NEW MEDICO

LEGEND

NOTES: 1. ALL SPOT ELEVATIONS REPRESENT FLOWLING ELEVATION UNLESS OTHERWISE NOTED.

PRIVATE DRAINAGE IMPROVEMENT IN PUBLIC ROW NOTICE TO CONTRACTORS (SPECIAL ORDER "SO-19"

1. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

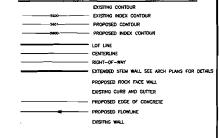
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXCLO ONE CALL, DIAL "81" (OR 505-280-1990.) FOR LOCATION OF EXISTING UTILITIES.

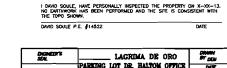
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EDST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONTRACTOR SHALL NOTIFY THE ENGINEER
- 5. BACKELL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE
- 6 MAINTENANCE OF THESE FACULTIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
- 8. PRIOR TO POURING CONCRETE, CONTRACTOR SHALL NOTIFY THE STORM DRAIN INSPECTOR, 505-857-8074, TO INSTRECT REINFORCEMENT.

MENT,			
/AL	NAME:	 DATE:	
TOR			

(R_G

SCALE: 1"-10"







CITY OF ALBUQUERQUE

July 30, 2015



David Soule, P.E. Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

RE: Haltom Dental 10433 LaGrima Del Oro NE Grading and Drainage Plan Engineers Stamp Date 7/1/15 (F21D052)

Dear Mr. Soule,

Based upon the information provided in your submittal received 7/2/15, this plan cannot be approved for Grading Permit and Paving Permit until the following comments are addressed.

- Provide build notes on the G&D plan.
- Provide the benchmark.
- Provide a date on the signature line/remove X-XX-13.
- Provide a curb cut in the Southeast corner of parking lot.
- Depress all landscaping areas.
- Provide spot elevations along swale.
- Provide invert at beginning of swale.
- Show location of wall in Bio Swale Detail.
- Extend sidewalk culvert 2 feet inside property line.

Albuquerque

PO Box 1293

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E. Senior Engineer, Hydrology Planning Department

RR/RH C: File